MONTHLY WEATHER MAP

METEOROLOGICAL SERVICE, DOMINION OF CANADA

SEPTEMBER 1930

TEMPERATURE

During September masses of cool air continued to move from the far northeast as in preceding months, into northern Quebec as far as the north shore of the Gulf of the St. Lawrence. From the fifth to the thirteenth and from the twenty-third to the end of the month, the cool front extended also from the Arctic Archipelago to the west of Hudson Bay. During the latter period temperatures were simultaneously moderately low in the Yukon and Alaska.

In the Yukon, British Columbia, Alberta, generally in southern Saskatchewan, and in the lower Mackenzie valley, the mean temperature of the month was one or two degrees higher than in a normal September, except in a few localities where the excess was four degrees or more.

In the upper Mackenzie valley, the Athabasca valley, the upper Churchill valley, part of southeastern Saskatchewan, southern Manitoba, northern Ontario for the most part, the greater part of Quebec including the north shore of the Gulf and the Gaspé peninsula, as well as the region from the northwest shores of Hudson Bay at Chesterfield west to Coppermine, mean temperatures were below normal but the deficiency was only one or two degrees except on the north shore of the Gulf of the St. Lawrence where it was locally four degrees.

In southern Ontario, part of southern Quebec and the greater part of the Atlantic provinces there was an excess over normal temperature of one to three degrees.

PRECIPITATION

Less than the usual amount of precipitation was recorded in the Yukon and far northern British Columbia but in the middle latitudes of British Columbia from Prince Rupert to the upper Fraser valley and thence east to the Yellowhead Pass and the Peace River valley there was an excess over the normal amount, of about thirty per cent. in the interior and about ten per cent. on the coast.

In southern British Columbia, as well as in that part of Alberta lying between Edmonton and Calgary, precipitation was generally less than normal. In extreme southern Alberta, and in Saskatchewan except the southeast, there was an excess of approximately twenty-five per cent. with locally quite heavy amounts in the Prince Albert-Saskatoon region. In southeastern Saskatchewan, southern Manitoba, southern Ontario, southwestern Quebec and the greater part of the Atlantic provinces, as well as the Abitibi slope and the Lake of the Woods region in northern Ontario, the total amount was less than normal. In southeastern Saskatchewan, southern Manitoba and the Lake of the Woods region, the deficiency was generally from one-third to one-half of the normal amount. In southern Ontario the deficiency varied from ten to sixty per cent. In the Atlantic provinces rainfall was generally from twenty to ninety per cent. below the normal amount. In southern Quebec the deficiency was twenty to sixty per cent. Along the north shore of Lake Superior to Sudbury and Haileybury and also in region of Lake St. John and locally in the upper valley of the St. Maurice as well as in the Gaspé peninsula and parts of the north shore of the Gulf of the St. Lawrence, showers were frequent with moderate excess over the normal amount. Norman, Smith and Churchill, in the far north, reported excesses of thirty to ninety per cent. of the normal amount, while Simpson, Aklavik, and Chesterfield reported deficiencies. Returns from the Coppermine were incomplete.

BRITISH COLUMBIA

On Vancouver Island and the lower mainland the month was generally one to four degrees warmer than normal and dry. Forest fires have been numerous and prolonged. The interior valleys of the south have also been moderately warm and dry. The number of forest fires has exceeded the usual number by twenty per cent.

In the fruit regions of the southern interior, peaches, plums and prunes have been a better crop than last year while packers report apples twenty per cent. better than last year.

ALBERTA, SASKATCHEWAN and MANITOBA

The month was generally two or three degrees warmer than a normal September in Alberta and Saskatchewan but one or two degrees below normal in some southern districts of Manitoba. Precipitation was light in Manitoba, southeastern Saskatchewan, and that region in Alberta lying between Edmonton and Calgary. In other districts especially the Prince Albert-Saskatoon district, precipitation was greater than is usual in September.

ONTARIO

September was dry in southern Ontario, the Lake of the Woods region, and the Abitibi slope, while on the north shore of Lake Superior as far west as Sudbury and Haileybury the month was moderately wet. The southern regions were generally two or three degrees warmer than normal while the northern districts for the most part were cooler than normal by one or two degrees.

QUEBEC

In the Lake St. John region, parts of the upper St. Maurice valley the Gaspé peninsula and generally along the north shore of the Gulf, rainfall was heavier than normal. In southwestern Quebec the month was very dry. Temperatures were generally somewhat above normal in the southwest but from the Lake St. John region eastward were generally below normal.

ATLANTIC PROVINCES

Mean temperatures were one to four degrees above normal except in the most northerly districts of New Brunswick where they were normal or a little below. Rainfall was generally light, twenty to ninety per cent. below the normal September amount. Nova Scotia, especially, suffered from drought. The continued dry weather of the last two months has produced serious conditions in many districts. Rivers, streams and wells are at the lowest level in many years.

HUDSON STRAIT

The mean temperatures in the strait were about one degree above normal. On the west coast of Hudson Bay at Chesterfield the temperature was one degree below normal but at Churchill two degrees above. Precipitation at Churchill was unusually heavy.

SPECIAL REPORTS

NOTE—Column H is Highest Temperature; Column L is Lowest Temperature; Column P is Precipitation in inches; Column I denotes total of bright sunshine in hours during the month.

BRITISH COLUMBIA

STATION	H	L	P	I	STATION	H	L	P	I	STATION	H	L	P	I
Victoria	82°	46°	1.0	207	Courtenay	...	...	1.5		Vernon	84°	39°	0.3	191
Vancouver	82°	39°	2.6	192	Metchosin	77°	39°	1.1		Greenwood	87°	26°	0.3	
Prince Rupert	74°	48°	9.5		Agassiz	84°	39°	4.3	127	Fernie	...	...	1.7	
Prince George	84°	15°	3.3		Chilliwack	84°	36°	4.2		Cranbrook	84°	30°	2.2	
Kamloops	85°	31°	0.5	198	New Westminster	82°	39°	3.3		Creston	85°	28°	0.8	
Salmon Arm	87°	29°	0.9	180	White Rock	78°	42°	2.6		Grand Forks	92°	26°	0.7	
Sidney	75°	40°	0.8	211	Summerland	83°	35°	0.5	191	Revelstoke	87°	29°	1.6	
Duncan	85°	32°	1.1		Oliver	93°	28°	0.7	176	Golden	83°	20°	0.8	
Nanaimo	79°	42°	0.8	209	Armstrong	83°	25°	0.4						

ALBERTA

STATION	H	L	P	I	SPECIAL REPORTS
Beaver Lodge	83°	18°	2.4	165	Threshing repeatedly interrupted by rain but resumed on October 2nd.
Edmonton	81°	23°	1.2	178	September opened warm, becoming colder with intermittent rain and average amount of sunshine. First frost on 19th, first killing frost on 25th. Sleet on 23rd. In this vicinity all cutting finished early. Threshing varies in localities, good average showing, forty per cent. finished. Recent wet weather has delayed harvesting. Snow has flattened grain in some districts but no hail or frost damage reported. Wheat averages 30 bushels number 2 and 3 Northern, oats 30, barley 25. Farmers optimistic of results. Month closing with steady southeast wind, clear and cool.
Calgary	84°	26°	1.4	177	
Medicine Hat	89°	33°	3.3	169	Threshing completed, fall ploughing in progress. No frost.
Wetaskiwin	80°	22°	1.2		Light hail, no damage.
Grouard	80°	23°	4.8		Hail 14th to 18th, no damage.
Berwyn	84°	22°	3.0		Threshing delayed by rain from the 5th, resumed on 26th. Killing frost 24th and 25th.
Ranfurly	81°	23°	1.8		
Entrance	81°	18°	2.1		
Slave Lake	72°	30°	1.2		
Banff	78°	21°	1.5		No frost damage.
Lake Louise	74°	15°	1.2		
Exshaw	81°	24°	2.8		
Coalspur	77°	15°	3.5		
Rocky Mountain House	76°	20°	1.8		
Wabamun	...	...	1.0		
Winnifred	...	...	2.4		Frost on 24th.
Lacombe	83°	29°	1.2		Light frost on 16th.
Craigmyle	...	...	1.3		Frost from 18th to 25th.
Jenner	86°	24°	3.2		
Harmattan	80°	24°	1.4		
Seven Persons	...	...	3.9		Rain delayed work. Snow general from the 23rd.
Macleod	86°	27°	2.2		
Alsask	88°	21°	2.9		
Pincher Creek	81°	27°	1.7		
Sedgewick	86°	24°	2.4		
Strathmore	83°	27°	1.1		
Brooks	82°	30°	...		
Viking	85°	23°	2.0		
Holden	83°	22°	1.4		
Beaver Mines	...	...	1.3		Heavy snow.
Coleman	...	...	2.0		
Hill Spring	...	...	2.2		No frost.
Claresholm	...	...	1.9		
Cardston	81°	24°	2.8		
Bragg Creek	79°	25°	1.4		

SASKATCHEWAN

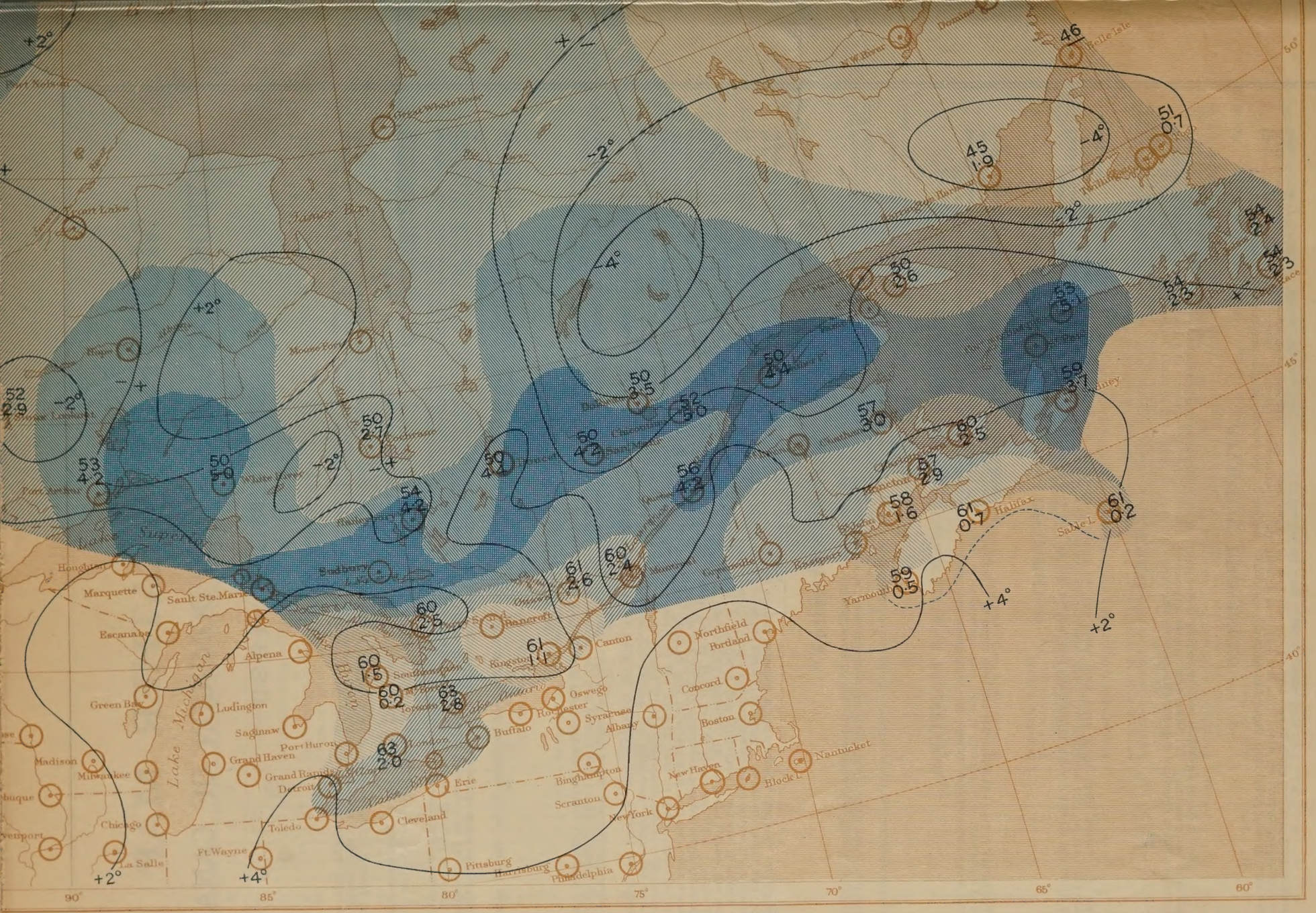
Battleford	88°	26°	2.2		Threshing about 70% finished. Wheat averages 27 bushels, oats about 60 bushels. Threshing delayed by heavy rains and winds.
Scott	86°	21°	1.4	174	
Prince Albert	83°	23°	3.8		Threshing has been delayed. Good yields reported. Some grains sprouting.
Swift Current	87°	26°	2.7	196	Very bad wind and snowstorm on the 23rd and 24th. Threshing completed in this district.
Moose Jaw	88°	24°	1.4	223	Threshing finished with nearly all wheat grading 1 and 2. Average per acre, wheat 6 bushels, oats and barley 10 bushels. First heavy frost on 26th.
Qu'Appelle	82°	21°	0.9	198	The weather during September was changeable. Some storms occurred.
Cadillac	85°	27°	1.2		Soil moist. Average yield one bushel per seeded acreage. Some damage to gardens by worms and grasshoppers.
Muenster	83°	22°	5.8		Soil very moist. Eighty-five per cent of wheat threshed. Some barley but no oats threshed.
Beechy	87°	26°	2.2		
Dundurn	87°	23°	3.0		Soil moist. Threshing delayed by rain during the latter part of month.
Whitewood	78°	...	0.8		Threshing completed.
Francis	83°	21°	1.4		
Waseca	81°	22°	3.5		Soil and crop conditions good. Threshing delayed by rain. Some frost damage.
Assiniboia	86°	25°	1.6		Soil fairly moist. Threshing finished.
Gravelbourg	81°	25°	1.9		Soil wet.
Chaplin	84°	25°	1.1		Soil very dry.
Rosetown	87°	22°	2.3		Soil damp to a depth of 9 inches. Land in good condition for 1931.
Carlyle	81°	17°	0.4		Soil very dry and unsuitable for fall ploughing. Threshing finished September 20th. Wheat averages 17 bushels, oats 25, barley 20, rye 18. Ten per cent of barley uncut on account of rust.

MANITOBA

STATION	H	L	P	I	SPECIAL REPORTS
Winnipeg	85°	26°	1.3	191	
Minnedosa	83°	13°	0.2		Threshing finished. Wheat averages 25 bushels per acre, oats 40, barley 30. Ground too dry for ploughing.
Le Pas	72°	22°	2.2		
Morden	83°	28°	1.0		Threshing completed. Fall ploughing in progress. More rain needed.
Morden(Exp.Farm)	91°	17°	1.3	221	
Oak Bank	85°	23°	1.5		Threshing delayed but nearly all completed by end of month. Late crops, with few exceptions, have suffered much damage from rust. Potatoes good yield and quality.
Brandon	86°	14°	0.4	214	Threshing practically completed. Soil very dry and ploughing is difficult. First killing frost on 28th. Crop good average yield and sample.
Morris	90°	20°	1.6		Good fall weather, very little frost.
Birtle	86°	9°	0.2		All wheat threshed by 27th, 90 per cent of coarse grains finished. Favourable weather for farm work all month, slight delay from high gales in latter part. Soil is very dry and little fall ploughing is being done.
Graysville	85°	19°	0.4		
Treesbank	89°	16°	1.7		Month very dry. Heavy rain on 10th when 1·30 inches fell. Threshing proceeded steadily and was almost finished by the end of the month.
Virden	92°	16°	0.3		
Dauphin	86°	20°	0.6		
Hamiota	84°	13°	0.1		
Pierson	88°	10°	0.3		
Russell	83°	13°	0.9		
Sprague	83°	16°	0.8		
Pinawa	80°	20°	1.4		
Portage la Prairie	85°	21°	2.0		

ONTARIO

Kenora	82°	27°	1.6		No frost until the 29th.
Quorn	72°	25°	3.6		
Port Arthur	74°	31°	4.2		All crops excellent. Waters low in lakes and streams.
White River	76°	25°	4.9		
Cochrane	81°	28°	2.9		
Ruel	89°	27°	3.9		All vegetation has been affected by the frost.
Haileybury	82°	38°	4.2		Crops mostly harvested. Potatoes and roots poor, other crops only fair.
New Liskeard	80°	31°	4.2	105	
Parry Sound	81°	40°	2.5		Best yields of oats and hay in 5 years. Late vegetables and root crops very promising.
Scotia Junction	80°	33°	2.7		Potatoes, roots and grain have yielded splendidly.
Walker's Point	83°	34°	2.8	183	
Beatrice	82°	33°	2.7		
Washago	...	...	2.5		No frost yet.
Beeton	93°	32°	0.8		Harvest finished, digging of roots partly completed. Winter wheat in splendid condition.
Barrie	82°	40°	2.8		
Walkerton	93°	32°	1.1		Month was warm and very dry but favorable for the ripening of late crops.
Mount Forest	89°	34°	0.2		Ground too dry for ploughing. Roots are being harvested with potatoes and turnips a fair crop in spite of the drought.
Alton	90°	32°	1.1		
Woodstock	86°	37°	1.1	182	Garden truck and fruits have been very good in spite of drought.
Lucknow	91°	34°	1.8		Ground very dry. Pastures bare.
Southampton	85°	37°	1.5		
Brucefield	87°	35°	1.7		
London	90°	36°	2.0		Late potatoes fair. Heavy rain on the 24th was a great benefit to farmers.
Paris	89°	36°	1.4		
Harrow	86°	36°	2.1	197	
Simcoe	89°	36°	1.2		Light rains have revived pastures. No frost yet.
Toronto	87°	39°	2.8	200	
Peterboro'	86°	36°	1.7		Crops generally good in spite of light rainfall.
Bloomfield	85°	34°	1.6		
Queensboro'	84°	33°	0.9		Theshing nearly complete. Grains have been very good and early potatoes excellent. Root crops have suffered from drought. Late potatoes not yet harvested.
Belleville	87°	38°	1.4	154	
Kingston	78°	45°	1.1	189	Fall ploughing completed.
Morrisburg	84°	32°	1.1		Most wells low or dry.
Brockville	80°	44°	0.7		Corn crop below average. Fall ploughing now in progress.
Ottawa	90°	38°	2.6		
Ottawa (Exp.Farm)	87°	32°	2.4	154	Frosts on 9th and 10th damaged tender stuff only.
Renfrew	82°	40°	2.6		Showery, cool, and somewhat foggy month.
Pembroke	90°	36°	4.2		Harvesting complete and threshing in progress.
Clontarf	88°	30°	1.7		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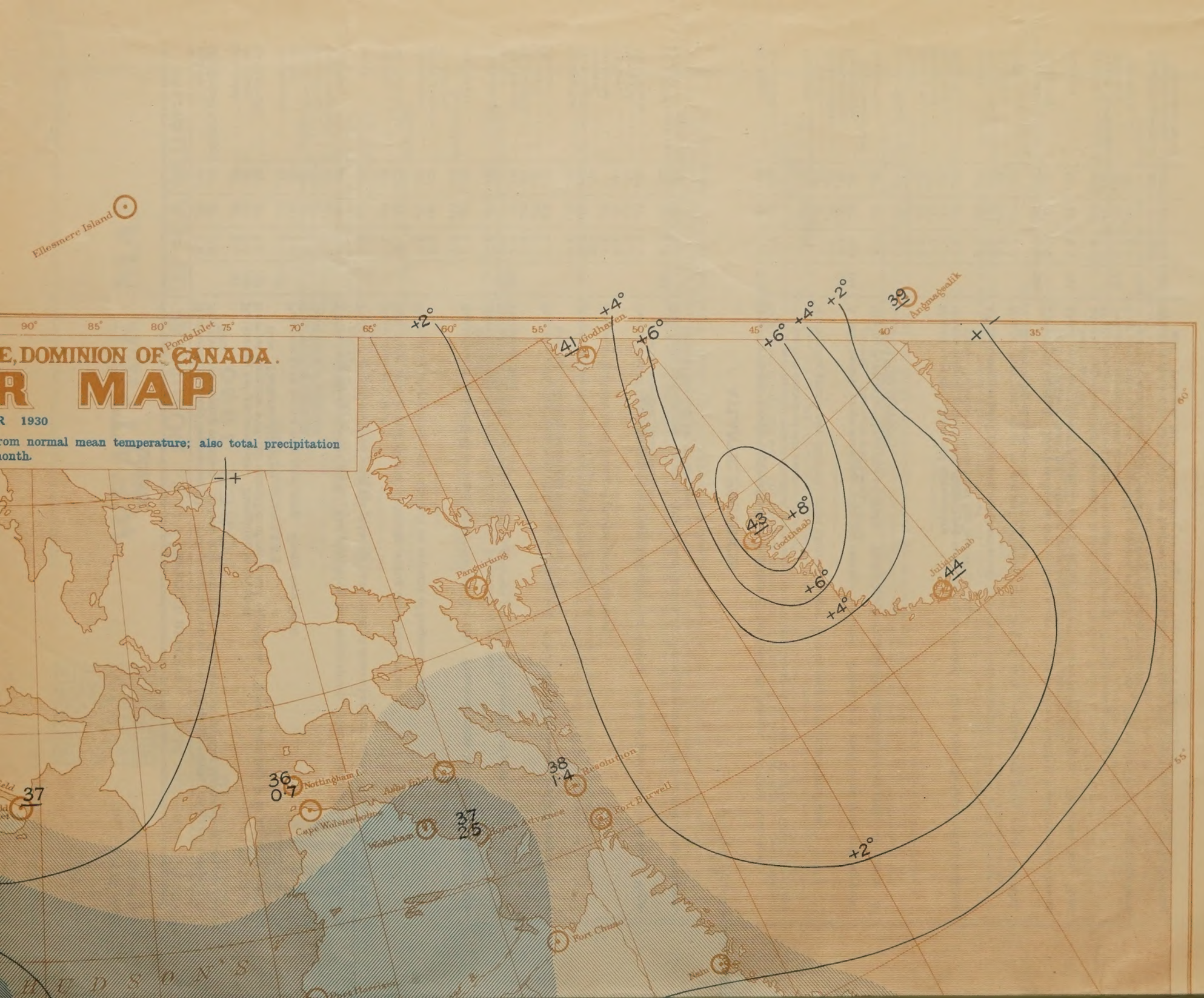
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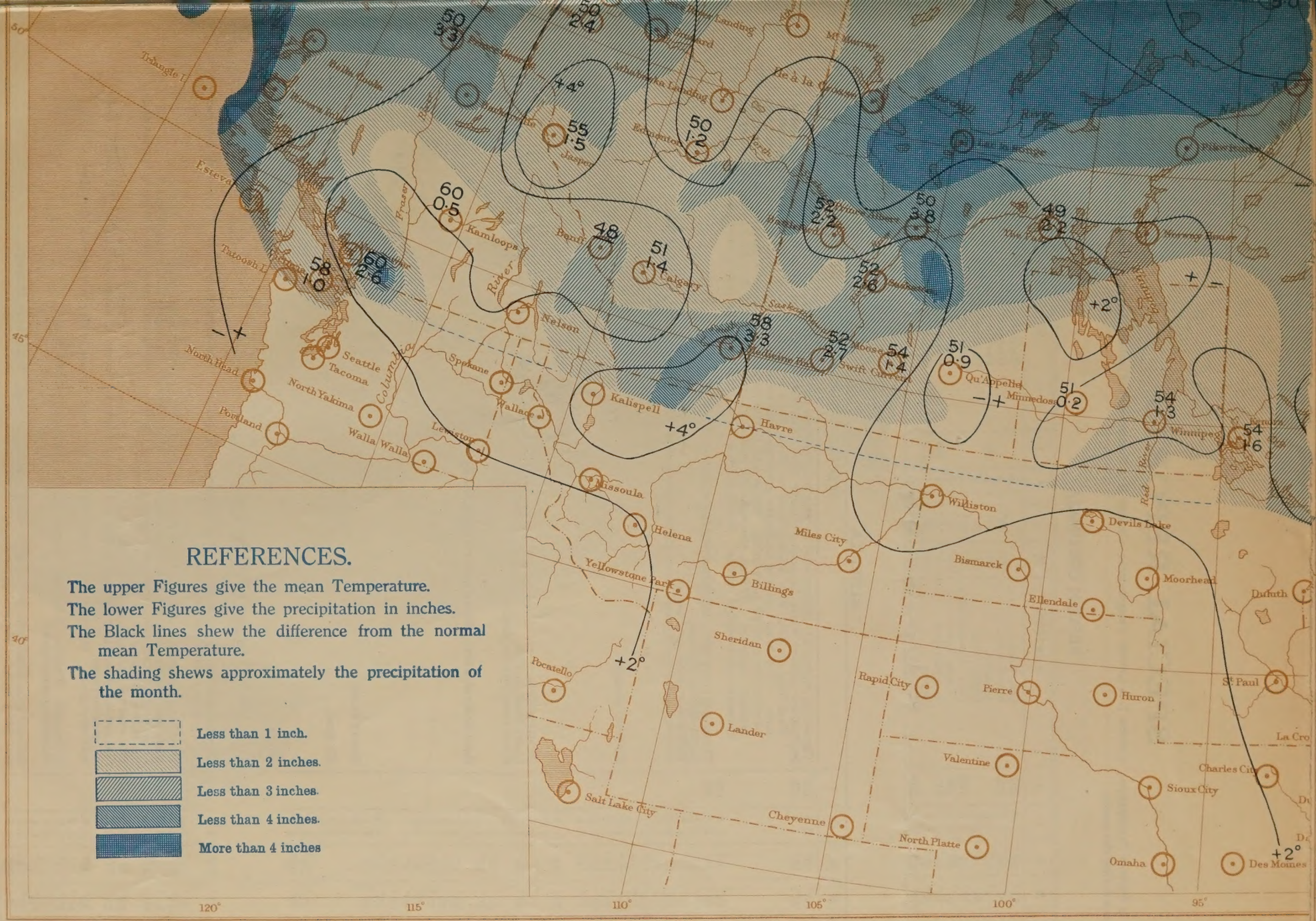

REFERENCES.

The upper Figures give the mean Temperature.

The lower Figures give the precipitation in inches.

The Black lines shew the difference from the normal mean Temperature.

The shading shews approximately the precipitation of the month.

- Less than 1 inch.
- Less than 2 inches.
- Less than 3 inches.
- Less than 4 inches.
- More than 4 inches

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Chart shewing the mean temperature and the difference
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QUEBEC

STATION	H	L	P	I	SPECIAL REPORTS
Cedars	84°	40°	1.0		Harvesting finished September 6th. Fall ploughing commenced September 15th. Fogs on 4 days.
Macdonald College	86°	42°	1.6		Excellent harvesting weather. Potato crop very good. Commenced picking McIntosh apples on the 29th.
Montréal	84°	46°	2.4	141	
Farnham	87°	32°	2.5	164	Harvesting not yet complete. Ploughing in progress.
Lennoxville	86°	32°	1.8	152	Harvest complete with the exception of roots and vegetables. Newly sown hay is in splendid condition. Pastures still good.
Sherbrooke	81°	37°	2.4	157	
Brome	82°	31°	2.6		Potatoes have been a very good crop. Frosts very light.
Drummondville	85°	35°	1.8		Good yield of potatoes.
Beauceville	82°	31°	1.4		Good yield of potatoes.
Lake Mégantic	79°	38°	2.1		
Joliette	80°	36°	2.5		Yields have been generally good. Fall ploughing has commenced. Heavy damage by hail at some points.
Sorel	86°	37°	3.2		Yields of grain have been good but potatoes have suffered somewhat from rain. Vegetable crops very good.
Nicolet	80°	40°	3.5		Vegetables excellent.
St. Gabriel de Brandon	72°	36°	2.8		Late crops were harvested with difficulty owing to frequent rains.
Huberdeau	82°	33°	3.5		Harvesting of grain has been difficult on account of frequent storms.
Mont Laurier	82°	39°	3.2		
St. Lin des Laurentides	83°	33°	3.1		
Maniwaki	80°	34°	3.7		Gardens and orchards were damaged by frost on the 6th. Frequent rains have interferred with the harvest.
Donnacona	80°	42°	5.2		Harvest completed with excellent yields, especially of potatoes.
Québec	79°	40°	4.2	135	Showers on 17 days. Crops generally fair except potatoes which have been poor.
Cap Rouge	80°	41°	4.2	126	Frequent rains.
St. Joachim	79°	40°	5.4		
Armagh	83°	40°	4.1		
Bicquet	70°	34°	4.6		Potatoes suffering from rust with great loss from rot. Yield of wheat good but badly damaged by wet harvest. Roots and cabbages excellent.
Causapscal	80°	32°	3.9		
Chicoutimi	78°	35°	5.0		Frequent rains have seriously injured the crops.
Albanel	79°	...	3.0		
Roberval	...	49°	2.7		Frequent showers have damaged grains during harvest.
Dolbeau	79°	32°	3.5		
Sanmaur	78°	27°	4.2		
Ville Marie	80°	34°	3.4		On account of heavy rains potatoes have suffered from rotting. Yields of grain have been fair. Vegetables excellent, pastures good.
La Ferme	77°	25°	2.9	97	
Abitibi	81°	33°	2.1		Oats have been average in some parts of the district, in others very poor. Wheat fair, potatoes poor. Ground too dry for ploughing.

ATLANTIC PROVINCES

St. John	70°	44°	1.6	177	Country districts suffering from lack of moisture. Fire hazard in forests. St. John River low.
Aroostook	83°	32°	3.3		September cloudy and wet. Considerable quantities of grain still in fields and more or less damaged. Potato digging nearly finished, with crop somewhat damaged by wet. St. John River very high for this season of the year.
Bathurst	79°	35°	3.0		
Chatham	83°	37°	3.0		Harvesting practically finished, crops about average. Rot in potatoes in some localities.
Edmundston	78°	34°	4.6		
Fredericton	82°	37°	1.8	165	
Fredericton (Experimental Farm)	82°	37°	2.0	164	A mild month, crops excellent with no damage by frost. Potatoes a good crop; roots making good growth. Pastures still green.
Gagetown	80°	40°	3.9		During September there was no frost. There has been luxuriant growth of root crops and grain. A good crop of apples.
Grand Falls	76°	33°	2.6		
Harvey	81°	38°	2.2		
Moncton	85°	28°	2.9		
Musquash	75°	32°	1.1		
McAdam	81°	35°	2.2		Month very dry; lakes and streams low.
Rexton	84°	34°	2.3		Potato digging general and other root crops being harvested. Grain now threshed with a medium yield. In some sections frost has injured gardens.
Sussex	82°	32°	1.8		
Woodstock	84°	33°	2.5		All field crops a good yield and now harvested, but a poor yield of fruit.
Halifax	83°	39°	0.7		
Digby	77°	38°	1.0		Month very dry, crops in general suffering from lack of rain. Apples very poor, pears plentiful. Heavy frost on 30th.
Kentville	84°	33°	0.9	189	
Liverpool	79°	31°	0.4		Very light rainfall. Many wells are dry and in many of the country districts water for cattle has to be hauled long distances. Garden crops have suffered to some extent.
Nappan	82°	34°	2.4	181	Ideal weather throughout September. Grain stored in excellent condition. Pastures fair. Rain badly needed.
Sydney	86°	39°	3.7		All crops good and well harvested.
Upper Stewiacke	88°	30°	1.3		Wells nearly dry. River at lowest stage ever known. Turnips not growing.
Wolfville	82°	38°	0.9	181	Drought prolonged and acute.
Yarmouth	78°	42°	0.5		Hay and grain crop poor; vegetables, apples, and small fruit fair. The whole district is suffering from a severe water-shortage. Brooks, rivers, and lakes very low.
Charlottetown	84°	46°	2.1		
Charlottetown (Experimental Farm)	83°	41°	2.5	191	Weather favorable for potato crop, half saved and above average. Corn best in years. Roots growing well. Pastures fair. Fruit below average, but vegetables a splendid crop.